



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/778,910	02/08/2001	Masahiko Yamada	Q61218	5832
7590	03/18/2004		EXAMINER	
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3202			KASSA, YOSEF	
			ART UNIT	PAPER NUMBER
			2625	
			DATE MAILED: 03/18/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/778,910	YAMADA, MASAHIKO
	Examiner YOSEF KASSA	Art Unit 2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 08 February 2001.  
 2a) This action is **FINAL**.                            2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-32 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1,3,6,8,10,12,14,15,17,20,22,24,26,28,29 and 31 is/are rejected.  
 7) Claim(s) 2,4,5,7,9,11,13,16,18,19,21,23,25,27,30 and 32 is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 08 February 2001 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date 3.

4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.  
 5) Notice of Informal Patent Application (PTO-152)  
 6) Other: \_\_\_\_\_.

**DETAILED ACTION**

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1,3,6,8,10,12,14,15,17,20,22,24,26,28,29 and 31 are rejected under 35 U.S.C. 103(a) as being unpatentable over McCann et al (US patent 6,516,089), and further in view of Kim (5,615,310).

With regard to claim 1, McCann discloses reconstructing an image which has a resolution differing from a reference-resolution i.e., original image, (see col. 3, lines 46-51); and calculating an image-processing parameter, based on a reference-processing parameter employed in performing a predetermined image-processing process on a reference-resolution image having said reference resolution (see col. 3, lines 51-56), image-processing parameter being employed in performing said predetermined image-processing process on the reconstructed image (see col. 3, lines 57-61) and causing the image characteristics, i.e., gamut image, of reconstructed image subjected to predetermined image-processing process to be substantially the same as the image characteristics of said reference-resolution image subjected to predetermined image-processing process (see col. 4, lines 52-63).

McCann does not explicitly call for reconstructing an image based on an image signal subjected to a multiple-resolution transformation process. However, at the same

field of endeavor, Kim discloses this feature (see col. 4, lines 14-22). At the time of invention, it would have been obvious to incorporate the teaching of Kim image resolution matching process into Chen image reproduction system. The motivation doing so is to provide step of matching resolution before printing so that data having a resolution different from the primary resolution of an image printed as an original size (see col. 2, lines 1-4 of Kim).

With regard to claim 3, McCann discloses reconstructed image subjected to predetermined image-processing process is further converted to an image having a desired image-size (see col. 4, lines 54-63).

With regard to claim 6, McCann discloses reference-processing parameter is stored in correlation with image signal (see col. 4, lines 12-15).

Claim 8 is similarly analyzed as claim 6.

With regard to claim 10, McCann discloses image-processing parameter is calculated based on the characteristic of multiple-resolution transformation process (see col. 3, lines 50-61).

Claims 12, 14, 20, 22, 29 and 31 are similarly analyzed as claim 10.

Claims 15 and 24 are similarly analyzed as claim 1.

With regard to claim 17, McCann discloses zoom-processing means for further converting said reconstructed image subjected to predetermined image-processing process, to an image having a desired image-size (see col. 8, lines 1-9).

Claim 26 is similarly analyzed as claim 3.

***Allowable Subject Matter***

2. Claims 2,4,5,7,9,11,13,16,18,19,21,23,25,27, 30 and 32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

***Other Prior Art Cited***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent No. (6,122,412) to Noguchi et al discloses image processing apparatus, method and computer program product.

US Patent No. (6,175,352) to Kay et al discloses address generator display and spatial light modulator.

US Patent No. (6,532,024) to Everett et al disclose multi format on screen monitor.

US Patent No. (6,316,974) to Taraci et al disclose methods and apparatus for vertically locking input and output signals.

US Patent No. (6,567,116) to Aman et al disclose multiple object tracking system.

***Conclusion***

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOSEF KASSA whose telephone number is (703) 306-5918. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BHAVESH MEHTA can be reached on (703) 308-5246. The fax phone numbers for the organization where this application or proceeding is assigned is (703) 872-9306 for regular communication and (703) 872-9306 for after Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the customer service office whose telephone number is (703) 306-5631. The group receptionist number for TC 2600 is (703) 305-4700.

**PATENT EXAMINER**

Yosef Kassa

03/12/04.



BHAVESH M. MEHTA  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600